The n^{th} Term of an Arithmetic Sequence

Name _____

Date _____ Period _____

The n^{th} term of an Arithmetic Sequence

$$a_n = a_1 + (n - 1)\cdot d$$

Find the 15^{th} term of the following arithmetic sequences

-4, -1, 2, 5, 8, 11, ...

12, 10, 8, 6, 4, 2, ...

Find the 10^{th} term of the arithmetic sequence with $a_5 = -4$ and $a_8 = -16$.

Find the 6^{th} term of the arithmetic sequence with $a_4 = 13$ and $a_8 = 33$.

Find the first term, common difference, recursive formula, and formula for n^{th} term of the following arithmetic sequences

4th term is 3; 20th term is 35

Find the first term, common difference, recursive formula, and formula for n^{th} term of the following arithmetic sequences

5th term is -2; 14th term is 34